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Datasheet for ABIN734003

## anti-Elastin antibody (AA 681-786)

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### Overview

Quantity:	100 µL
Target:	Elastin (ELN)
Binding Specificity:	AA 681-786
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Elastin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Flow Cytometry (FACS)

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Elastin
Isotype:	IgG
Purification:	Purified by Protein A.

### Target Details

Target:	Elastin (ELN)
Alternative Name:	Elastin ( <a href="#">ELN Products</a> )
Background:	Major structural protein of tissues such as aorta and nuchal ligament, which must expand rapidly and recover completely. Molecular determinant of the late arterial morphogenesis,

## Target Details

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stabilizing arterial structure by regulating proliferation and organization of vascular smooth muscle (By similarity).

Subcellular location: Secreted, Extracellular matrix

Synonyms: WS, WBS, SVAS, Elastin, Tropoelastin, ELN

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Gene ID: 2006

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UniProt: [P15502](#)

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Pathways: [Regulation of Actin Filament Polymerization](#)

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## Application Details

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Application Notes:

- WB 1:300-5000
- ELISA 1:500-1000
- FCM 1:20-100
- IHC-P 1:200-400
- IHC-F 1:100-500
- IF(IHC-P) 1:50-200
- IF(IHC-F) 1:50-200
- IF(ICC) 1:50-200

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 µg/µL

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Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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Expiry Date: 12 months

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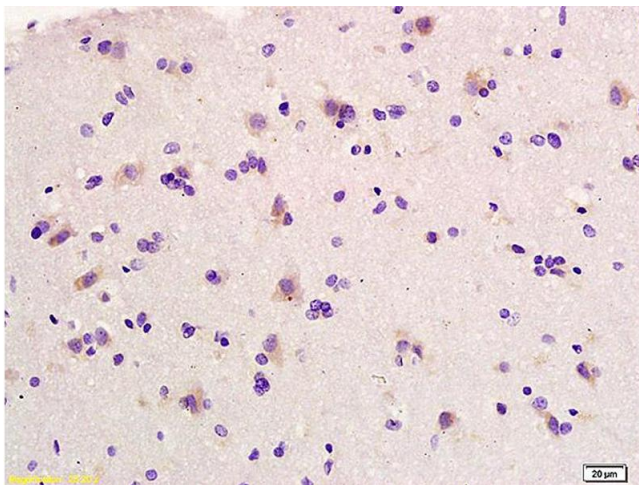
## Publications

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- Product cited in: Hasegawa, Sato, Shirai, Watanabe, Yamamoto, Watanabe, Nohtomi, Hirano, Watanabe: "Vasoprotective effects of urocortin 1 against atherosclerosis in vitro and in vivo." in: **PLoS ONE**, Vol. 9, Issue 12, pp. e110866, (2014) ([PubMed](#)).
- Konii, Sato, Kikuchi, Okiyama, Watanabe, Hasegawa, Yamamoto, Itoh, Hirano, Watanabe: "Stimulatory effects of cardiotrophin 1 on atherosclerosis." in: **Hypertension**, Vol. 62, Issue 5, pp. 942-50, (2013) ([PubMed](#)).
- Guo, Li, Dong, Chen, Deng, Wang, Ying: "Piezoelectric PU/PVDF electrospun scaffolds for wound healing applications." in: **Colloids and surfaces. B, Biointerfaces**, Vol. 96, pp. 29-36, (2012) ([PubMed](#)).
- Ikeda, Yada, Takase: "[Syntheses of 1,3,4-thiadiazole derivatives]." in: **Yakugaku zasshi : Journal of the Pharmaceutical Society of Japan**, Vol. 90, Issue 1, pp. 95-8, (1970) ([PubMed](#)).

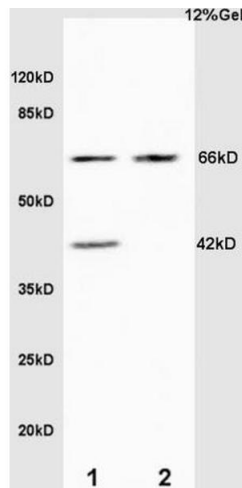
## Validation report #029657 for Immunohistochemistry (IHC)

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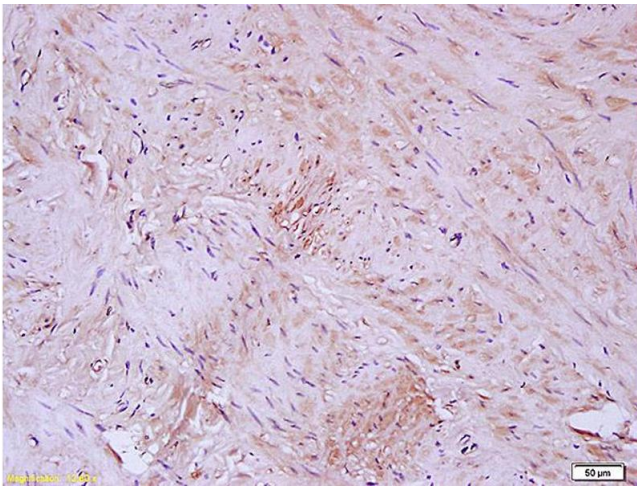
### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded human glioma labeled with Anti-Elastin Polyclonal Antibody, Unconjugated (ABIN734003) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



### SDS-PAGE

**Image 2.** L1 mouse intestine lysates L2 rat lung lysates probed with Anti Alpha Elastin Polyclonal Antibody, Unconjugated (ABIN734003) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 66kD. Observed band size: 66kD



### Immunohistochemistry

**Image 3.** Formalin-fixed and paraffin embedded human artery labeled with Anti-Elastin Polyclonal Antibody, Unconjugated (ABIN734003) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN734003.



## Successfully validated (Immunohistochemistry (IHC))

by [Beth Israel Deaconess Medical Center Confocal Imaging Core](#)

Report Number: 028751

Date: Sep 25 2013

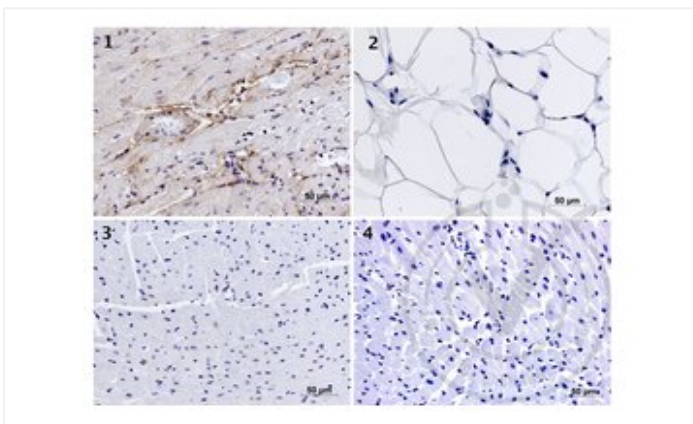
Lot Number:	120306
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Mouse heart tissue
Negative Control:	Mouse adipose tissue
Notes:	Signal was detected in positive control tissue and not detected in negative control tissue.
Primary Antibody:	- Antibody: Elastin (ELN) (C-Term) antibody - Catalog number: ABIN734003 - Lot number: 120306
Secondary Antibody:	- Antibody: Donkey anti-Rabbit IgG Antibody (Biotinylated) - Catalog number: 711-065-152 - Supplier: Jackson ImmunoResearch
Isotype:	- Antibody: Rabbit IgG isotype control - Catalog number: bs-0295P - Supplier: Bioss - Lot number: YYDW72P
Controls:	<ul style="list-style-type: none"><li>• Positive control: Wild type mouse heart tissue (specimen known to contain the target protein).</li><li>• Negative control: Wild type adipose tissue (specimen known to not contain the target protein).</li><li>• Primary antibody isotype control: Wild type mouse heart treated with primary antibody isotype control instead of the primary antibody.</li><li>• Secondary antibody only control: Wild type mouse heart treated with secondary antibody only (no primary antibody).</li></ul>
Protocol:	<ul style="list-style-type: none"><li>• Immunohistochemistry was performed manually.</li><li>• Sections were deparaffinized and rehydrated.</li><li>• Sections were heated to 98°C for 10 min in 10 mM citrate buffer pH 6.0 for antigen retrieval.</li><li>• Sections were incubated in 3% hydrogen peroxide for 10 min at room temperature to block endogenous peroxidase.</li><li>• Sections were washed x 3 in Tris buffered saline (TBS).</li><li>• Sections were blocked in 5% normal donkey serum for 60 min at room temperature.</li><li>• Sections were incubated with primary antibody diluted 1:1000 in 5% normal donkey serum in</li></ul>

TBS. Incubated at 4°C overnight.

- Sections were washed x 3 in Tris buffered saline.
- Sections were incubated with secondary antibody diluted 1:400 in 5% normal donkey serum in TBS. Incubated for 60 min at room temperature.
- Sections were washed x 3 in Tris buffered saline.
- Sections were incubated with Vectastain ABC kit (Vector Lab PK6100) to enhance signal.
- Sections were incubated with DAB chromogenic substrate (Vector Lab SK-4105) for 60 seconds at room temperature.
- Sections were washed x 3 in Distilled Water.
- Sections were counterstained with hematoxylin for 1 min.
- Sections were washed x 1 in Distilled Water.
- Sections were dehydrated, mounted and photographed under a Zeiss AxioImager M1 light microscope.

Experimental Notes: None

Image for Validation report #028751



**Validation image no. 1 for anti-Elastin (ELN) (AA 681-786) antibody (ABIN734003)**

Figure 1: Immunostaining of Elastin antibody. Panel 1: Staining of mouse heart tissue stained with anti-Elastin antibody (brown). Panel 2: Staining of mouse adipose tissue with anti-Elastin antibody. Panel 3: Staining of mouse heart tissue with isotype control antibody. Panel 4: Staining of mouse heart tissue with secondary antibody only. All panels are counterstained with hematoxylin (blue).